In the Claims

1. (withdrawn) A microchannel plate comprising:

a plurality of laminated layers, each of said laminated layers having a plurality of channels formed therein,

wherein the block is sliced to a specified plate thickness.

- 2. (withdrawn) The microchannel plate of claim 1, wherein said channels are tapered at said desired plate thickness.
- 3. (withdrawn) The microchannel plate of claim 1, wherein said channels are tapered so that a funneling effect is attained.
- 4. (withdrawn) The microchannel plate of claim 1, wherein said channels are buried.
- (withdrawn) The microchannel plate of claim 1 wherein said channels are diamond shaped.
- 6. (withdrawn) The microchannel plate of claim 1 wherein said channels are U-shaped in cross-section.
- 7. (withdrawn) A method of manufacuting a microchannel plate structure on a substrate, said method comprising the steps of:

selectively bonding a first layer to said substrate;

forming channels in said first layer;

attaching a handle to said first layer; and

cleaving said substrate.

- 8. (withdrawn) The method of claim 7, further comprising the steps of: repeating the steps for a second layer.
- (withdrawn) The method of claim 8 further comprising the steps of:
 bonding said first layer to said second layer.
- 10. (withdrawn) The method of claim 9, further comprising the step of: slicing said bonded structure in the direction of the cross section of the channels.
- 11. (withdrawn) The method of claim 10, further comprising the step of: slicing said bonded structure in the direction of the cross section of the channels.
- 12. (withdrawn) A method of manufacuting a microchannel plate structure, said method comprising the steps of:

providing a substrate;

selectively creating strong bond regions and weak bond regions on said substrate; providing a first bonded layer and a substrate layer;

attaching a handle to said first layer;

forming channels in said first layer;

cleaving said substrate;

repeating said forming, attaching and cleaving steps for a second layer; and bonding said first layer to said second layer.

13. (withdrawn) The method of claim 12 wherein said substrate is a multi layer substrate.

- 14. (withdrawn) The method of claim 13, further comprising the step of:

 slicing the bonded structure in the direction of the cross section of the channels.
- 15. (original) A Biochip array comprising:
 a CCD array;
 - a micorchannel plate supported by said phosphor screen; a photocathode supported by said microchannel plate; and

a phosphor screen supported by said CCD array;

- an array of biochips supported by said photocathode.
- 16. (original) The Biochip array of claim 15 wherein said microchannel plate is aligned with said array of biochips.
- 17. (original) The Biochip array of claim 15 wherein said microchannel plate has sub micron spacing.
- 18. (original) The Biochip array of claim 15 wherein detection of fluoresent signals at the CCD array is accomplished in parallel.